FACULTY OF ENVIRONMENTAL ENGINEERING
LUBLIN UNIVERSITY OF TECHNOLOGY
Lublin

Lublin is eastern Poland’s largest city. It has a long history, and received its town charter on the basis of Magdeburg Rights in 1317, thanks to Polish King Władysław the Short.

It is a students city, with no fewer than five state-run higher educational establishments numbering in excess of 100,000 students in total. Two establishments are academic ones, while there is also a Medical School, an Agricultural Academy and one technical university – Lublin University of Technology (LUT).
Lublin University of Technology

Lublin University of Technology was established in 1953 by the society of technicians, engineers and scientific researchers. It acquired its present status in 1977, and in subsequent years developed and expanded its range of scientific and didactic interests.

At present LUT has about 1200 undergraduate students and 124 Ph.D. students. Since its inception, Lublin University of Technology has had over 25,000 graduates. This is in fact the main educational and research institution in the engineering field to the east of the Vistula River, and hence in the less-developed, agricultural area of Poland which nevertheless enjoys a high educational potential.

The Faculties of the LUT are:
- The Faculty of Mechanical Engineering
- The Faculty of Electrical Engineering and Computer Science
- The Faculty of Management and Fundamentals of Technology
- The Faculty of Civil and Sanitary Engineering
- The Faculty of Environmental Engineering

The main campus of Lublin University of Technology occupies 2.5 ha (including 4 dormitories for 1392 students and the University Park). Every Faculty possesses its own building and laboratory facilities and shares the following interfaculty units:
- The Main Library, which provides a fully comprehensive service for students. It has over 400,000 volumes, as well as a unique collection of technical standards, scientific papers and dissertations by LUT academic staff. The University also subscribes to a large number of journals.
- The Information Technology Centre established in 2003 to support the University authorities and academic community in their administrative, learning, teaching and research endeavours.
- The Foreign Languages Department
- The Physical Education and Sports Department
Studies in Environmental Engineering prepare students for work in the fields of:

- the designing and installing of external and internal sanitary systems in residential constructions (specialisations: Heating, Ventilation and Air Conditioning; Water Supply and Waste Water Disposal; Water, Sewage and Waste Technology),

- special building in the field of environmental protection – sewage treatment plants and water treatment stations (specialisations: Water, Sewage and Waste Technology) and the construction of landfill sites and waste utilization objects (specialisations: Land Surface Protection Engineering and Waste Management).

In the world of today, investments into environmental protection are developing dynamically in line with possibilities for considerable amounts of financial support to be obtained by Poland from the European Union. This is particularly true for municipal infrastructure as in water supply, water treatment, water collection and purification systems (specialisations: Water Supply and Waste Water Disposal; Water, Sewage and Waste Technology), heating systems based on traditional and alternative sources of energy (specialisations: Heating Ventilation and Air Conditioning), and systems of waste management (specialisations: Land Surface Protection Engineering and Waste Management).
Education and specialties

The study of Environmental Engineering at Lublin University of Technology is a two-step process. After graduation from the first step (lasting 7 semesters – 3.5 a year) and a viva, the graduates obtain the professional grade of Engineer (of Environmental Engineering) with a specialisation concerning Sanitary Facilities.

Following their first-step graduation, graduates may commence with the second step leading to a Master’s title. These studies again last 3 semesters (1.5 a year), and involve the gaining of an Engineer, Master of Science grade in the field of Environmental Engineering in one of the following specialisations:

- Water, Sewage and Waste Technology
- Water Supply and Waste Water Disposal
- Heating, Ventilation and Air Conditioning
- Land Surface Protection Engineering and Waste Management
Faculty Building

The Faculty is housed in a modern building with plenty of rooms and auditoria equipped with audiovisual aids, with computerized design rooms and with experimental laboratories for students and scientific research. Since October 2007, the Faculty has had a superbly equipped large auditorium hall which can contain about 150 people.

The Faculty building also contains a well-stocked library with a wealth of books and a large number of journals of relevant to Environmental Engineering. “On-line” access to the world and electronic databases with full texts of scientific articles from the international publishers provide the best information source.

A special part of the building is assigned to research facilities, within which Master’s and doctoral research and research projects sponsored by state or international institutions are implemented and pursued.

The Research Project Laboratories consist of:
- Laboratory of Wastewater and Sewage Sludge Technology,
- Laboratory of Environmental Microbiology,
- Laboratory of Environmental Chemistry,
- Laboratory of Earth’s Surface Protection,
- Laboratory of Thermal Techniques,
- Laboratory of Fluid Mechanics,
- Laboratory of Advanced Oxidising Techniques in Environmental Engineering,
- Laboratory of the Application of Ion-Exchange Methods for Wastewater Treatment,
- Laboratory for Studies of Methane Oxidation in Biofilters and Landfill Covers.

To improve communication and information exchange, Faculty students have instant access to the wireless Internet.
Why it is good to study Environmental Engineering
(in students’ minds)

- Studying here requires creativity, as many courses rely on design, with students having to decide which solutions are proper in resolving various technological problems,

- Well-qualified teaching staff teach students interestingly: the Faculty obtained a First Category notification from the Minister of Science and Higher Education,

- The modern auditorium hall and laboratories equipped with modern devices allow for effective theory learning but also for the carrying out of special experiments and the practical application of knowledge,

- Some classes are run in English together with foreign students from elsewhere in the European Union, which gives the student the possibility of learning more, as well as preparing him/her for cooperation with people from around the world,

- Environmental Engineering is a direction of the future, which can provide opportunities for work in design, construction and operational companies,

- The labour market requires specialists in this field,

- New technologies allow for the adaptation of environmental engineering systems to new European Union requirements,

- Environmental engineers improve living standards and people’s comfort.
Specialisation

Water, Sewage and Waste Technology

With a view to differences in “eco” investments between Poland and Western Europe being eliminated, many ecological funds have been pumped into the building and operation of wastewater treatment plants and installations for waste sorting and decontamination.

Students of the Water, Sewage and Waste Technology specialisation obtain the necessary knowledge about the treatment of water from various sources, about municipal and industrial sewage purification and about waste recycling. They are well educated and prepared to meet challenges with the application of new technological solutions that are up to the standards prevailing in Poland, as attuned to the European Union regulations.
Environmental Engineering graduates with this specialisation work as designers, builders and users of water treatment stations, wastewater treatment plants and waste recycling installations. They are also respected workers of industrial works, as well as the administration at state and local levels. They also work in higher technical educational, or else in inspection institutions like the Environmental Protection Inspectorates or Sanepid (the Sanitary and Epidemiological Service).

Once they can show they have engaged in professional practice, graduates working in designing and building can apply to the full extent for building permits in the field of Sanitary Facilities and systems. The work being assigned to environmental engineers continues to increase in variety. Our graduates work everywhere in Poland and are considered good professionals.

If you really want to develop your interests and soon be able to use your knowledge and experience to protect precious environmental resources, then you are invited to study here.
Specialisation

Water Supply and Wastewater Disposal

The specialisation of Water Supply and Water Disposal is steadily attracting more interest among Environmental Engineering students. European Union budgetary grants have allowed for the application of a wide process of infrastructure building oriented towards our region.

Those investments are generally connected with water supply, sewage disposal and gas supply systems. This situation is causing increases in the demand for well-qualified engineering and technical staff in this branch.
Graduates of this specialisation can work in water-supply and sewage-disposal enterprises, in municipal management, at design offices, in the building industry, and in state and local administration in the branch of Environmental Engineering and protection, but also in inspection institutions like the Environmental Protection Inspectorates.
Specialisation

Heating, Ventilation and Air Conditioning

Heating, Ventilation and Air Conditioning teaches high-quality specialists in the area of modern Environmental Engineering techniques like ventilation, air conditioning and heating systems. During studies, students are taught all necessary knowledge about modern technologies, standards and regulations, as adapted to the European Union requirements.

Teaching is of very broad scope, encompassing such issues as: buildings’ heating protection and thermorenovation procedures, traditional and energy-saving heating systems and the preparation of hot water, conventional and alternative sources of heating and electric energy, heating systems and thermal nodes, the formation of the indoor microclimate and indoor air quality estimation, ventilation and air conditioning systems in habitable and public-utility buildings, cooling and cooling sources in air-conditioning systems, and the automation of HVAC systems.
Heating, Ventilation and Air Conditioning graduates are fully prepared to work in designing, building, operational and research companies. They can work in heat-energy enterprises, design offices, building, exploitation and trade businesses, the state administration and local government, as well as in scientific and research centers and in higher education.
Specialisation

Land Surface Protection Engineering and Waste Management

Land surface protection engineering and waste management graduates are well prepared to engage in research, design and building work as regards pedosphere regeneration, reclamation, revalorization and waste management.

Study links up especially closely with pedosphere threat valuation, the application of technical and biological methods of water-soil environment protection against destructive processes caused by air, industrial and agricultural pollution, collection and recycling, and waste decontamination.
Engineers taking this specialization become involved in the designing, operation and reclamation of landfills and different objects connected with waste recycling. They work in government and local administration and at centers of environmental protection and engineering.

Our graduates work at research centers and universities, but also in design offices and building companies, or in special objects like Incineration or Composting Plants. They work in industry, transportation and municipal enterprises as specialists in the branch of Environmental Engineering. They also work in units of environmental protection inspection at all levels, and in the state administration.

Students of this specialisation often go for one or two semesters of study abroad, within the framework of intercollegiate bilateral articles, this resulting in constant cooperation with centers abroad, as well as - often - in further stays to do doctoral studies.
The quality of education is guaranteed by a modern laboratory. In the Faculty laboratories, workers do research for their scientific theses and dissertations, but also for external clients. Students are also involved in scientific research for their Master's degrees.

Didactic laboratories offer chances for the acquisition of the practical and analytical skills necessary if there is to be suitable evaluation of technological processes run, and of water, wastewater, air and soil quality. Modern, fully equipped and programmed computer laboratories offer skills acquisition in the field of computer graphics and modeling of phenomena in the environment.
The workers of the Environmental Engineering Faculty of Lublin University of Technology not only teach students but also lead their own scientific research in “Environmental Engineering”.

Research and a presence within international scientific syndicates, as well as a chance to publish results at the highest world level are also essential for students. Due to the constant scientific and didactic development of workers, we are able to provide the highest possible educational level, while our international contacts offer good opportunities for students to study abroad. The greatest achievement of the team is its having the “Leader of Polish Ecology” title conferred upon it.

In 1994, the scope of scientific research was extended to the replacement of mine materials by wastes. Several methods have been formulated to allow for a decrease in the use of raw materials used to produce brick. The research results have been verified on the fully technical scale in two cement factories.

The application of waste-burning technology at the Rejowiec and Ożarów cement factories was rewarded in 1998 with the second edition of the “Leader of Polish Ecology” competition from the Minister of Environmental Protection, Natural Resources and Forestry.
Within the framework of the Socrates-Erasmus Program, students of our Faculty can study abroad with financial support from the European Union. The range of centers which students may go to is very extensive, and becomes wider every year. To spend a semester abroad, it is not required to pass a foreign-language test, though good academic results are required. The best students have the possibility to go abroad.

For several years now, there has also been a possibility to go to Japan for a one-year stay, though this does require confirmation of English-language knowledge in the form of an exam.

Brandenburgische Technische Universität Cottbus, D COTTBUS01, Germany
Universidad de las Palmas de Gran Canaria E LAS-PAL01, Spain
Technische Universität München, D MUNCHEN02, Germany
Christian – Albrechts Universität zu Kiel, D KIEL01, Germany
Technische Universität Dresden, D DRESDEN02, Germany
Yildiz Teknik Universitesi, TR ISTANBU07, Turkey
Universität Hohenheim, D STUTTG02, Germany
Aalborg University, DK ALBORG01, Denmark
Université de Limoges, F LIMOGES01, France
The Faculty of Environmental Engineering at Lublin University of Technology is the only single-direction faculty to obtain the highest (first) category in the Ministry of Science valuation.

Together with the professional teaching, special stress is put on English language education. English learning is one of the most important aims in a student’s education. Organized courses preparing students for the TOEFL exam are particularly important in enabling many students to obtain the level of language providing for fluent communication and study abroad.

We are also the only centre in our region to have an accredited exam centre, directly connected with the Princeton Center, USA, allowing for the obtainment of TOEFL certificates honored around the world.

Since 1999, we have also been cooperating with the international network coordinated by the Brandenburgische Technische Universität in Cottbus. Every year we accept students from Cottbus for a single semester, these attending courses along with Polish students. In parallel our students have the possibility to go for a semester to Cottbus. Within the framework of the international exchange, common Master’s theses are run together with the Christian-Albrechts Universität in Kiel, run by supervisors from the two centers.

Our graduates are more and more likely to find work abroad in the UK, United States and Japan. Many people found work in these countries working in their profession. The best graduates often work on their Ph.D. dissertations.

The graduates with the highest marks have the possibility of starting out on scientific work in the Faculty of Environmental Engineering. Graduation from our Faculty also gives the possibility of the “Euroengineer” title, honored in the whole European Union, being obtained.
Scientific Associations

Students can develop their interests in the following Scientific Associations at the Faculty:
- the Scientific Association of Environmental Engineering,
- the Association of Computer Science Applications in Environmental Engineering,
- the Association of Heating and Ventilation.

Every year the members of the Scientific Association of Environmental Engineering organize the Annual Conference on the Application of Modern Techniques in Environmental Protection Engineering.

The Scientific Associations’ members represent the Faculty at the scientific conferences run by other Universities, and take part in subject-related training sessions connected with Environmental Engineering. At weekly meetings, students extend their knowledge of various computer programs. The last project to be implemented was a cycle of themed excursions to production companies in the environs of Lublin.
Environmental Protection Engineering students are represented by the Student Government, an active part being played in activities at Faculty and whole University levels.

The major aim of the Student Government is the representation of students’ rights in dealings with the University authorities, attendance at intercollegiate meetings and the organization of a series of cultural parties like the inauguration/induction week, Miss University Election or the Juwenalia.

The Juwenalia (Days of Student Culture) offer a good possibility for students to take part in plays, a discotheque, outdoor barbecues, amateur climbing, painting workshops, and sports tournaments (in football and volleyball, table tennis, arm-wrestling and chess).

Also put on are displays of martial arts like muay-thai and karate. There are also races of four-wheel vehicles, balloon flying, performances by well-known artists and many other attractions.
Student life

Possibilities for artistic abilities to be developed are provided by such student formations as: the Academic Chorus of LUT, the “Gamza” Clubbing Dance Association, the “Krajka” Academic Folk Dance Ensemble, the Modern Dance Group, other students bands, the Student Photographic Agency “SAF”, the “StuArt” Students Cultural Initiative and the editorial office of the Student Government’s journal called “PLAGIAT”.

LUT students are able to use a wide variety of sports facilities. Courses in these are run by qualified training staff at the well-equipped sports hall and MOSiR swimming-pool. Sports abilities can be developed in several sections and sporting organizations.

Clubs: Kick-boxing, Yacht Club, the “PASKUDA” Scuba-diving Club and the “Esox” Fishing Association.

Sections: football, handball, basketball, volleyball, Muay Thai, sports shooting KU AZS PL and historical sword fencing.
Student accommodation

A major advantage and comfort for students are four perfectly-placed student dormitories located near the University. The dormitories are able to accommodate about 1400 people in conditions favourable to both work and play.

The efficient location of student social facilities close to the teaching buildings makes it much easier for effective use to be made of spare time and money.

In the immediate vicinity of the dormitories there is a large student canteen. In turn, most of the teaching buildings contain smaller-scale student bars, which are inexpensive.
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